Sardar Patel University B.Sc. (Semester-III) Examination

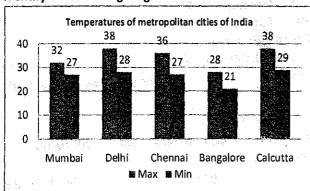
2013

5th December, 2013

Course Code: US03FSTA01

Time 2 20	Foundation	of Statistics - I	
Time: 2 - 30 to 4 - 30 p.m	(Foundat	ion Course)	M.Marks: 70
Note: (i) Simple/Scientific cal Q.1 Multiple Choice Question	culator is allowed.	(ii) Graph pape	r will be provided on request.
			(10×1)
(1) Simple random sampl		tion is	
(a) homogeneous (2) If N = 15 and n = 5 the	(b) heterogeneous	(c) Both (a) and (b)	(d) Neither (a) nor (b)
(a) 2	possible systematic sam		
- •	(b) 3 g is not a part of statistic	(c) 4	(d) None of these
(a) Caption	(b) Title	医甲基二基 医甲基二二甲基甲醛 医克尔氏 电电路 医二角蛋白	
(4)	must be given at the bot	(c) Foot note tom of the table, if secon	(d) Legend
(a) Head Hote	(D) Foot note	(c) Course make	(\2\)
(5) a	ire the first hand inf	formation collected co	(d) Title mpiled and published by
organization for some	purpose.		mphen and published by
(a) Primary data	(b) Secondary data	(c) Qualitative data	(d) Quantitative data
(6) In a grouped frequency	distribution, the classes		
(a)Mutually exclusive	(b) Exhaustive	(c) som (a) and	(d) Neither nor (b)
(7) Which method do	you considered to b	A hort mask	(a) Neither nor
(c) Indirect Oral Investig	Iry Method (E	p) Mailed Questionnaire (Vlethod
(8) Which of the following	is not a method of drawi	l) All of the above	
(a) Lottery method		(b) Mailed Questionn	nina BA-AI I
(c) Use of random num	ıbers table	(d) Roth (a) and (a)	aire ivietnod
	can be described as varia	able?	
(a) Pregnancy duration	and the second s	(b) Heart rate	
(c) Time spent on comp	uter(in hours)	(d) All of the above	
(10) Which of the following i	s NOT a measure of cent	ral tendency?	
(a) iviedian	(b) Standard deviation	(c) Mean	(d) Mode
Allo descriping Milit	empt Any Ten)	dia dia kaominina dia mpikambana any aora 2001. Ny INSEE dia mampiasa ny kaominina mpikambana amin'ny fivondronana amin'ny faritr'oka mpikambana ao amin'ny fi Ny INSEE dia mandritry ny taona mpikambana amin'ny faritr'oka mpikambana amin'ny faritr'oka mpikambana amin'n	(10×2)
A CONTRACTOR OF CARLE	of variable and categori	cal variable (attribute).	
0	ts advantages.		
(4) What is tabulation? State	ematic sample of size n	= 4 from a population of	size N= 20?
(4) What is tabulation? State(5) State the aim of sample s	its importance.		
(6) Define Mean. Write down	urvey.		
	n the formulae to calcula	ate mean.	(x,y,y,z,z,z,z,z,z,z,z,z,z,z,z,z,z,z,z,z,
1 0	ods of drawing ordinal d	lata.	
to be most suitable if nor	ous or grawing a sample	e. According to you, whic	h method do you consider
on our suitable it this			

- (9) State any two applications of Statistics.
- (10) What is secondary data? Give any two sources of secondary data.
- (11) Identify the following diagram. Name it and state its objective(s).



(12) Which diagram do you considered to be most suitable for the data given below? Name it and state its objective(s).

	Profits ('000 Rs.)		
Year	Company A	Company B	
2010 - 11	120	90	
2011 - 12	135	95	
2012 - 13	140	108	

- Q.3(a) State the various methods of collecting primary data. According to you if informants are (5) literate and spread over a vast area, which methods do you considered to be best? Write in brief about them.
 - (b) List out the various methods of drawing a sample. Write in brief about any one of them. (5)

- Q.3(a) Explain lottery method by giving an example.
 - (5)
 - (b) State the applications of statistics in various fields. Write in brief about any one of them. (5)
- Q.4(a) State the various methods of drawing a sample. Write in brief about any one of them.
 - State the various sources of secondary data.

OR

- Q.4(a) Write a note on mailed questionnaire method.
 - (b) Present the following information through a multiple bar diagram. State its objective(s).

LCD MARKET SHARE (%)			and the second	
Market share	Samsung	Sony	LG	
World	18.6	13.2	8.4	
India	40.8	20.5	21.2	

- Q.5(a) What is classification? State the purpose of classification.
 - Recorded here are the blood types of 40 persons who have volunteered to donate blood at a (5) blood center. Summarize the data in a frequency table.

(5)

(5)

(5)

			BLOO	GROL	JΡ		
AB [*]	O [†]	B⁺	Α̈́	A.	A`	B ⁺	O [†]
O [†]	AB ⁻	A ⁺	O [†]	A⁺	O.	A⁺	B.
AB [†]	В.	O [†]	A ⁻	B ⁺	A ⁺	B ⁺	AB⁺
O ⁺	A	AB [†]	0.	B.	B⁺	A⁺	B⁺
A ⁺	A ^r	A [*]	0	0	\mathbf{A}^{\dagger}	AB [*]	A ⁺
			-		OR		

Q.5(a) What is tabulation? State the various parts of table. Describe in brief about any one of them.

4.8

5.9

- (5) (b) Draw a blank table to show the no. of candidate sexwise, appearing in the first year, second (5) year and third year examination of university in the faculty of Arts, Commerce and Science in a certain year.
- Q.6(a) What is an average? State its uses.

(5)

(5)

8.3

(b) A sample of underweight babies was fed a special diet and the following weight gains (lbs) (5) were observed at the end of three month.

3.4

4.1

6.7 2.7 2.5 3.6 Calculate Mean and standard deviation.

OR

- Q.6(a) List out the various measures of central tendency. Define any one of them.
 - (b) Calculate mean, median and mode for the data given below: (5)
 - 23 41 11 13 27 33 19 52 22